
















Appendix D: Atlas of Restoration Opportunities

Comprehensive Restoration Plan (CRP) Restoration Sites and Associated Target Ecosystem Characteristics (TECs)

CRP Restoration Sites	Site ID	Project Description	Coastal Wetlands	Islands for Waterbirds	Coastal & Maritime Forest	Oyster Reefs	Eelgrass Beds	Shorelines and Shallows	Habitat for Fish, Crab and Lobsters	Tributary Connections	Enclosed and Confined Waters	Sediment Quality	Public Access
Additions to Arden Woods	1	Upland/Wetland Acquisition & Preservation											
Cable Avenue Woods	2	Upland/Wetland Acquisition & Preservation											
Canada Hill Forest	3	Upland/Wetland Acquisition & Preservation											
Charleston/Kreischer Hill Woods	4	Upland/Wetland Acquisition & Preservation											
North Mount Loretto Woods	5	Upland/Wetland Acquisition & Preservation											
Northern Sea View	6	Woodland/Grassland Acquisition & Preservation											
Outerbridge Ponds and Woods	7	Upland/Wetland Acquisition & Preservation											
Pouch Camp	8	Upland/Wetland Acquisition & Preservation											
Seagirt Avenue Wetlands	9	Salt marsh, Upland buffer											
South Brother Island	10	Intertidal salt marsh on the east end. Installation of wave attenuation structures											
Udalls Cove Ravine	11	Excavate <i>Phragmites</i> , regrade and plant <i>Spartina spp.</i> Improve hydrodynamics in tidally restricted areas.											
Huckleberry Island	12	Colonial Wading Bird Rookery											
South Beach Wetlands, Northern Section	13	Upland/Wetland Acquisition & Restoration											








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Great Kills Harbor Park Nelson/Sweetwater/Fitzgerald	14	Remove <i>Phragmites</i> , regrade to proper intertidal elevation; plant <i>Spartina</i> spp. Shoreline softening/stabilization; create upland meadows.											
Saw Mill Park Addition	15	Agency Land Transfer											
Merrill's Creek	16	Upland/Wetland Acquisition and Preservation											
Neck Creek	17	Tidal Wetland Acquisition & Preservation											
Port Mobile Swamp Forest and Tidal Flats	18	Freshwater/Tidal Wetland Acquisition & Preservation											
Raritan River - Multiple Sites	19	Tidal Wetland Acquisition, Enhancement, & Restoration											
Leonardo (Middletown Township)	20	Salt marsh restoration											
Ware Creek	21	Permanent Protection of Stream Corridor											
Compton Creek	22	Permanent Protection of Stream Corridor											
Natco Lake/Thorns Creek	23	Stream and lake enhancement.											
East Creek	24	Permanent Protection of Stream Corridor											
Flat Creek	25	Permanent Protection of Stream Corridor											
Conaskonk Point	26	Permanent Protection; Wetland & Upland Restoration											

















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Matawan Creek	27	Keyport Harbor could be a viable site for creation of oyster reefs. Marsh restoration could be achieved by removing tidal restrictions (e.g. installation of wider culverts under roads) in Keyport Creek, and excavation of <i>Phragmites</i> stands.											
Treasure Lake	28	The restoration consists of reshaping/regrading the lake and its surrounding buffer area. Approximately 1400 feet of sea wall repair would take place, the removal of invasive species and the restoration of intermittent creeks would restore the freshwater wetlands.											
Whale Creek/ Long Neck Creek	29	Permanent Protection of Stream Corridor											
Marquis Creek	30	Salt marsh restoration and upland restoration pending acquisition, conservation easement, or agreement with owner.											
Cheesequake Marsh	31	Excavation of <i>Phragmites</i> in high-elevation areas; Improvement of tidal hydrodynamics; regrading and planting of <i>Spartina spp.</i> Acquire adjacent unprotected buffer areas to minimize potential contamination.											
Old Morgan Landfill/ Raritan County Park	32	Return vacant land to viable wildlife habitat.											




















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South Amboy	33	Permanent Protection; Wetland, Forest, & Upland Restoration											
Morses Creek	34	Tidal wetland enhancement.											
Piles Creek	35	Restoration of tidal wetlands, replacement of invasive species, creation of nature trail.											
Hudson County Mall/ Route 440 Mall	36	Wetland preservation (through acquisition or conservation management agreement) and possible restoration on private lands behind the "Route 440 Mall" south (downstream) of Lincoln Park West. Potential to restore to historic conditions.											
Liberty State Park	37	Restoration of intertidal salt marsh and improvement of hydrological flow can be achieved on 65 acres by removing fill and opening tidal channels. Permanent protection for natural areas and enhancing emergent habitat. Additional acres can be restored to enhance or create freshwater wetlands by removal of fill and replacing of native vegetation.											
Hackensack Meadowlands/Penhorn Creek	38	Wetland and tidal creek preservation, possible restoration/enhancement.											














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Hackensack Meadowlands/Kearny Marsh	39	Restore tide gate to allow for stabilization of tidal flow. Removal of <i>Phragmites</i> to allow for recolonization of native salt marsh vegetation (<i>Spartina</i> spp.). Create public access.											
Hackensack Meadowlands/Berrys Creek	40	Permanent Protection of Wetlands & Stream Corridor											
Richard P. Kane Natural Area	41	A number of conceptual wetland mitigation plans have been developed for the site.											
Hackensack Meadowlands/ Bellmans Creek, NJ	42	Tidal marsh preservation/permanent protection and restoration. Restoration project is to create open water, mudflat and open areas as well as to control, but not completely eradicate <i>Phragmites</i> .											
Overpeck Creek	43	Restore salt marsh and re-establish tidal flow. Shoreline softening/stabilization. Wetland restoration, riparian corridor, and meadow habitat restoration/enhancement.											
Manymind Creek	44	Salt Marsh and Fringe Habitat Acquisition											
Haworth	45	Reservoir buffer, forest protection											
Old Tappan	46	Upland buffer protection											
Emerson	47	Reservoir buffer, forest protection											






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Arlington Marsh	48	Tidal and Freshwater Wetland Acquisition & Preservation											
Little Fresh Kills, Arthur Kill Peninsula	49	Tidal Wetland Acquisition & Preservation											
Graniteville Swamp Woods	50	Wet Woods/Headwaters of Old Place Creek											
Arvene Urban Renewal Area	51	Some potential for enhancement and creation of piping plover and/or least tern nesting habitat.											
City Island Wetlands	52	Enhance wetland fringe. Upland could be cleared and restored with native cover type.											
Paw-Paw Hybrid Oak Coastal Woods	53	Mixed/Hybrid Oak Coastal Woods, Abuts Raritan Bay											
Wilpon Pond/Bridge Creek Wetland	54	Restoration of approximately 20 acre tidal marsh by regarding and planting with <i>Spartina alterniflora</i> . Construction completed by NYSDEC in 2005.											
Powells Cove	55	Remove fill and recontour to historical elevations creating gradient from low to high marsh. Plant low marsh with <i>Spartina</i> spp. and high marsh with upland buffer vegetation.											
Range Road Forest, NJ	56	Habitat preservation upland and wetland forests. Enhancement and mitigation of wetlands, creation of nature walk.											













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River Vale	58	Reservoir buffer, upland protection											
Claypit Creek	59	Acquisition of Tributary Waterfront											
Raritan River/Silver Lake	60	Tidal Wetland Acquisition, Enhancement, & Restoration											
Garcon Property	61												
Teleport Magnolia Forest	62												
St. Edward's Campground (Camp St. Edwards)	63	Acquisition-Upland Habitat (Scrub/Shrub & Open Fields/Lawns), View of Raritan Bay & Access to Water											
Butler Manor Woods	64	Acquisition- Freshwater Wetlands, including Small Stream											
Dismal Swamp	65	Wetland Acquisition											
Pennsylvania Railroad Harsimus Stem Embankment	66	Acquisition-Upland Habitat											
Laurel Hill Park Wetlands	67	Acquisition- Marshes and Open Fields											
NJ Soldiers & Sailor State Park	68												











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Prall's Island	101	Remove fill/ <i>Phragmites</i> and replace with sand and/or shell to promote water bird nesting. Salt marsh fringe erosion control by biotechnology (geotextile tubes/ <i>Spartina alterniflora</i> sprig planting) and or wave attenuation structures if required. Control of Ailanthus and planting gray birch in upland areas.											
Brant Point	102	Restore degraded high marsh shrub habitat and install wave attenuation structure. Establish <i>Spartina alterniflora</i> providing a ground cover to stabilize exposed soils.											
Breezy Point	103	Restore beach and dune habitats in the eastern portion of the site through the removal of the existing bulkhead and regrading of the shoreline.											
Spring Creek	104	Convert upland fill and <i>Phragmites</i> to salt marsh, grassland/maritime forest, scrub/shrub, and dunes. Improve tidal hydrodynamics. Establish warm season grassland and create an oak-dominated woodland community.											
Idlewild Park	105	Saltmarsh restoration and shoreline regarding/softening.											
LI Sound/Seton Falls Park	106	Non-Point Source Reduction/Restoration											














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Meadow Lake/Flushing Creek	107	Improve the lake's overall water quality and habitat potential; reduce erosion and sedimentation rates into the lake along with nutrient reduction/restoration.											
Little Hell Gate Wetlands (Randalls and Wards Islands)	108	Restore public access and create the Wetlands Walk. Wetland restoration through native species plantings. Invasive and exotic species control, native upland/shrub planting, and debris/fill removal.											
Lemon Creek, NY	109	Excavate <i>Phragmites</i> , regrade and plant with native salt marsh species (e.g. <i>Spartina</i> spp.). Enhance adjacent upland habitat. Increase tidal flow under Hyland boulevard (e.g. installation of larger culverts).											
Arden Heights Woods, NY	110	Perimeter protection/restoration/non-point source reduction.											
Long Pond Park	111	Reduce non-point source pollution and sedimentation into the Arthur Kill. Also stabilizing eroding slopes and improving habitats for the native plants.											
LI Sound/Bronx Park	112	Reduce sediment loads within the Bronx River. Invasive species control and restoration of native riparian vegetation. Bank stabilization with bioengineering techniques.											
Bronx River/Shoelace Park	113												















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Soundview Park, NY	114	Salt marsh restoration and scrub buffer.											
Raritan River	115	Oyster Bed Restoration											
Matawan Creek/ Keyport Harbor Mouth	116	Oyster bed restoration.											
Shadow Lake Dam	117	Fish ladder installation. Potential to restore to historic ecological function with full species use.											
Shrewsbury River Watershed (Multiple Sites)	118	Removal of low-head dams along the river tributaries to allow passage of American Eel. The former dredge disposal site at the Rumson Country Club may be able to restore shoreline wetlands with transition to upland coastal forest.											
Cheesequake State Park (White Cedar Forest)	119	Forest & Stream Restoration											
Cheesequake State Park (Hook Lake)	120	Stream Restoration											
Elizabeth River	121	Shoreline softening and bank stabilization; re-establishment of floodplain and floodplain terrace areas; site re-vegetation and restoration of aquatic and riparian wetland habitat.											















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Rahway River/Essex Street	122	Shoreline, forested upland, and tidal wetland restoration, with public access for wildlife observation and fishing. Potential to restore to historic ecological function.											
Rahway River/West Grand Avenue	123	Rip-rap removal, bank re-grading, stabilization and replanting; possible fish habitat improvement.											
Rahway River/Union/Allen Streets	124	Purchase and removal of existing structures with subsequent riparian floodplain restoration, stormwater management structure construction and possible wetland creation.											
Rahway River/Madison/Maple Avenues	125	Storm water impact reduction, stream bank stabilization, restoration of riparian habitat.											
Rahway River/Milton Lake	126	Lake shoreline restoration, possible wetland excavation, possible anadromous fish habitat, possible fish ladder.											
Rahway River/Central Avenue, NJ	127	Storm water impact reduction; riparian habitat enhancement.											
Rahway River/Central Avenue, NJ	128	Storm water impact reduction; riparian habitat enhancement.											
Rahway River/Rahway River Parkway Lake	129	Shoreline restoration, restoration to historic ecological function, and shallow water habitat enhancement.											
Rahway River/Joseph Medwick Park	130	Wetland enhancement.											

















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Rahway River/Potter's Island	131	Habitat enhancement for heron/egret rookery.											
Woodbridge River Restoration	132	Restore and re-grade intertidal salt marsh to improve tidal hydrology and re-establish native salt marsh vegetation; wildlife sanctuary and interpretive center.											
Lincoln Park West	135	Removal of fill and re-grading to improve tidal hydrology. Re-vegetation of the site with native salt marsh vegetation (e.g. <i>Spartina</i> spp.) and more desirable upland species. Create public access.											
Hackensack Meadowlands/ NJ Turnpike, Western Spur	138	Fencing to protect diamondback terrapins.											
Hackensack Meadowlands/ Mill Creek	139	Salt marsh and upland restoration. Habitat enhancement for endangered species (e.g., least tern nesting habitat). Nature trail construction.											
Third River	140	Fish ladder installation, streambank restoration.											
Weequahic Lake Restoration	141	Lake Restoration; Reverse Eutrophic Conditions; Restore Shoreline											
Van Buskirk Island	142	Freshwater wetland restoration, riparian buffer enhancement, passive recreation area.											














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Oradell Dam	143	Install fish ladder to allow upstream movement of anadromous fish (e.g. river herring).											
Teaneck Creek	144	Freshwater Wetland Restoration											
Dundee Dam	145	Land acquisition, park creation, fish ladder installation, streambank restoration.											
Mariner's Marsh	147												
Bayswater Park	148	Salt Marsh Restoration											
Dubos Point	149	Restore tidal marsh by debris removal, planting and replacement of pile wall.											
White Island	150	Restoration would replace the present <i>Phragmites</i> with low nutrient sand that would sustain an assemblage of native grasses that would be seeded and planted into sand.											
Bergen Beach	151	The salt marsh restoration includes excavation of the two acre <i>Phragmites</i> field, to appropriate low marsh and high marsh elevations, and planting of the site with typical low marsh, high marsh and shrub species.											
Twin Ballfields, Forest Park	152	Restore 6 acres of freshwater wetlands and upland habitat and re-establish natural drainage patterns. Severe erosion on surrounding slopes will be stabilized.											



















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Palmer Inlet	153	Salt marsh/riparian restoration.											
Bush Terminal	154	Salt Marsh Restoration											
Coney Island Creek/ Dreier-Offerman	155	Salt marsh and habitat restoration next to Dreier Offerman Park.											
Seton Falls	156	Freshwater Wetland Restoration											
Wilpon Pond – Goethals Complex	157	Brackish wetland enhancement. Studies completed by NYSDEC in 2007.											
Chelsea Road Bridge	158												
Hudson River/Riverdale Park	159	Reduce non-point source pollution into the Hudson River by stabilizing and replanting eroded slopes and restoring wetlands. Steep upland slopes will be stabilized by employing appropriate erosion control geotextiles and reestablishing native vegetation.											
Bergen Basin	160	Recontour basin to improve hydrodynamics.											
Hawtree Basin	161	Restore upland habitat to a native grassland/woodland community, remove abandoned water tank and rip-rap shoreline.											
Conch Basin	162	Restore shoreline and create tidal marsh. The restored segments of the shoreline would be planted with <i>Spartina alterniflora</i> .											













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Healy Avenue	163	Restoration of 1.25 acres of salt marsh and an acre of shrub land and grassland.											
JFK Shoreline	164	Salt Marsh Restoration											
Mott Basin	165	Extend the width of the existing tidal marsh and restore the upland plant community.											
Shell Bank Creek	166	Dredging/bathymetric re-contouring to improve tidal hydrodynamics. Fill degraded borrow pit at head of basin. A demonstration of impairment of existing habitat and the value of proposed restorations would be required.											
Somerville Basin	167	Re-grade shoreline, create tidal marsh and restore upland grassland/shrub habitat.											
Hendrix Creek	168	Re-contour basin to improve tidal hydrodynamics, excavate <i>Phragmites</i> and replant with salt marsh (e.g. <i>Spartina</i> spp.) and native species on upland buffer.											
Aurora Pond	169	Freshwater pond and watershed restoration.											
Bowery Bay	170	Salt marsh restoration with upland shrub buffer plantings.											
Vernam Barbadoes B	171	Salt Marsh Restoration											














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Vernam Barbadoes A	172	Maritime Heathland Remediation and Restoration: restore/create intertidal habitat, shoreline stabilization in maritime forest area, and removal of contaminated sediments.											
Pelham Bay Lagoon	173	<i>Phragmites</i> and fill removal and salt marsh restoration, creation of scrub-shrub habitat. Restoration of tidal flow between Turtle Cove and Pelham Bay Lagoon.											
Powells Cove	174	Salt Marsh Restoration											
Pugsley Creek, NY	175	Restoration of a freshwater marsh currently dominated by <i>Phragmites</i> . Stabilization of marsh edges and streambank.											
Bronx River/Cement Plant	176												
Turtle Cove	177	Enhancement of tidal exchange and <i>Phragmites</i> control. Studies completed by NYSDEC in 2003. Design in progress.											
Wrack Removal, Alley Pond Park	178	Fill, wrack and <i>Phragmites</i> removal; salt marsh restoration; enlargement of openings under roads and railroad; establish native grassland; possible dredging to allow for greater tidal penetration into head of Little Neck Bay. Freshwater stream restoration is possible at head of tidal channel.											












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Pelham Bay Park/ Tallapoosa West	179	Enhancement of tidal wetlands through <i>Phragmites</i> control. Design in progress (2008). Additional restoration opportunities include upland enhancement through invasives control and native species plantings.											
Range Road Forest	180	Habitat preservation upland and wetland forests. Enhancement and mitigation of wetlands, creation of nature walk.											
Rahway River/ Dri-Print Foil Printing Co.	181	Forested floodplain preservation, stream cleanup and rehabilitation, possible boardwalk/nature trail.											
Rahway River/Rahway River Parkway, The Lagoon	182	Shoreline restoration, storm water impact reduction, possible wetland creation.											
Rahway River/Cranford	183	Bank stabilization and riparian habitat restoration in association with stream restoration workshop. Potential creation of in-stream structure to improve fish habitat.											
Rahway River/ Orange Reservoir	184	Lacustrine shoreline enhancement.											
Rahway River/Vauxhall Creek	185	Management of invasive plants, stream bank replanting, aquatic habitat enhancement.											
Old Place - Goethals Complex	186	Bulkhead removal and shoreline stabilization. Soil remediation, re-establishment of tidal hydrology and saltmarsh creation.											
Saw Mill Creek	187												















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Flushing Creek	188	Salt marsh restoration.											
Hudson River/Inwood Park	189	Non-point source reduction/restoration. Part of the site is a mudflat that is incapable of supporting <i>Spartina alterniflora</i> . Sand would raise the elevation to support a new <i>Spartina alterniflora</i> salt marsh community.											
Hudson River/Fort Tryon Park	190	Non-point Source reduction/restoration.											
Spuyten Duyvil	191	Reduce non-point source pollution to the Hudson and Harlem Rivers by preventing erosion of the slopes of Spuyten Duyvil Shorefront Park. Invasive species control and restoration of native forest vegetation.											
Marine Park	192	Salt Marsh Restoration											
Gerritsen Inlet	193	Expand Jamaica Bay Ecosystem Restoration Program effort to rest of available NYCDPR property. Excavate <i>Phragmites</i> and regrade to intertidal elevation. Plant appropriate intertidal vegetation (e.g. <i>Spartina</i> spp.) Restore upland meadow, dunes, and maritime forest.											
Gulfport Marsh	194												






























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Richmond Creek	195	Anadromous fish passage ladder and a new culvert crossing will be installed, along with a detention basin, and a flow-control structure.											
Hudson River/Fort Washington Park	196	Bulkhead and fill removal to create salt marsh along 2 miles of waterfront of Fort Washington Park. . Potential to restore to historic ecological function.											
Hudson River/Riverside Park	197	Non-point source pollution control.											
Canarsie Beach	198	Salt Marsh Restoration											
Four Sparrow Marsh	199	The project aims to establish 2 acres of salt marsh and approximately one-third acre of maritime shrub land as a native buffer along west and south sides of a small tidal creek.											
Mill Basin, NY	200	Increase tidal flow, improve water and sediment quality, soften shoreline, and restore intertidal and dune habitats.											
	501												
	502												











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Gowanus Canal	503	A Feasibility Study is underway to assess the environmental problems and potential solutions for the Gowanus Canal area. Potential restoration measures include hot spot cleanup of off-channel contaminated sediments, contaminant reduction measures, creation of wetlands, water quality improvements, and alteration of hydrology/hydraulics to improve water movement and quality.											
Lower Bay Reef	504	Artificial Reef											
Passaic River	505	Removal of contaminated sediment and habitat restoration. (Note: EAP Superfund site.)											
Newark Bay (Shoreline Restoration), NJ	506												
Hackensack River	507	Restore natural shoreline by regarding and planting with native vegetation (e.g. <i>Spartina spp.</i>). Dredge lower river to remove contaminated sediments.											
Newark/Bayonne Park	513	Fringing salt marsh restoration, shoreline softening, enhancement of upland buffers.											
Newark Bay (Hotspot Remediation)	515												








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CRP Restoration Sites	Site ID	Project Description	Coastal Wetlands	Islands for Waterbirds	Coastal & Maritime Forest	Oyster Reefs	Eelgrass Beds	Shorelines and Shallows	Habitat for Fish, Crab and Lobsters	Tributary Connections	Enclosed and Confined Waters	Sediment Quality	Public Access
Losen Slote	522												
It/El Paso/Tennaco Energy/Nuodex	525												
Hatco Chemical	526												
Renora, Inc.	527												
South Plainfield Veterans Memorial Park	528												
Woodbrook Road	529												
Chemsol, Inc.	530												
Mill Brook Center	531	Tidal Wetland Acquisition, Enhancement, & Restoration											
Middlesex Sampling Plant	532												
Factory Lane	533	(disclosure of information is being discussed with owner)											
Cornell Dubilier Superfund Site	534	Post remediation restoration, (this site is being addressed for emergency actions and a long term remedial phase directed at cleanup of the entire site).											
Auxilic Air	535												














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Raritan Arsenal	536	Tidal Wetland Acquisition, Enhancement, & Restoration											
National Lead, NJ	537	Once served as an industrial center for Sayreville, has been vacant since 1982. Working with Sayreville, the MCIA has received conceptual proposals to revitalize and redevelop the area.											
Evor Phillips Leasing Company	538	Groundwater containment and treatment as part of NJDEP measures implemented in 1999.											
CPS/Madison Industries	539												
ILR	540												
Chemical Insecticide Superfund Site, NJ	541	Post remediation restoration, (clean up and removal of contaminated soil and groundwater that are contaminated with pesticides and herbicides).											
131 Jersey Avenue, NJ	543												
Iron Leaf	544												
Kents Neck, NJ	545												
Edgeboro Landfill	546												
Kin-Buc Landfill	547												




















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Raritan/South Rivers	548	Excavate <i>Phragmites</i> , grade to appropriate intertidal elevation, plant <i>Spartina</i> spp. or other appropriate native marsh vegetation. Soften/stabilize shoreline.											
Raritan Center	549	Salt marsh restoration and upland/grassland buffer enhancement.											
Disch Disposal Site	550	Tidal Wetland Acquisition, Enhancement, & Restoration											
Edison Landfill	551												
Raritan River Waterfront	552	Tidal Wetland Acquisition, Enhancement, & Restoration											
South Brunswick Landfill	553												
Fried Industries	554	Post remediation restoration.											
Jones Industrial Service Landfill	555												
Hudson/Bergen County Waterfront	556	The inter-pier basins in this area can be dredged to remove contaminated sediments, or capped with sand to isolate the contaminants from the Harbor ecosystem. If regraded to intertidal elevation, <i>Spartina alterniflora</i> marsh can be created in these areas.						 					









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Hudson River Breakwaters	557	Construct a series of carefully designed submerged breakwaters offshore to reduce current flows, creating a refuge for young-of-year striped bass and other fishery species. Also carefully designed breakwaters could encourage salt marsh growth.											
Hudson River Park Estuarine Sanctuary	562	Water quality, aquatic and wildlife habitat improvements. Promotion of native species and sustainable design. Public access improvements.											
Akzo Chemical	563	Tidal Wetland Acquisition, Enhancement, & Restoration											
Global Landfill	568												
Laurence Harbor	571	Increase tidal flow by installation of larger culverts under roads; excavate <i>Phragmites</i> stands, regrade and plant native salt marsh vegetation (e.g. <i>Spartina</i> spp.).											
Dreier-Offerman	573	Creation of dune/salt marsh complex along the remaining unrestored length of the shoreline. A portion of the area was restored in this manner in Spring 1998 by NYCDPR.											
Oakwood Beach	578	Improve tidal flow, remove <i>Phragmites</i> , regrade/replant with native vegetation (<i>Spartina</i> spp.). Clear large debris from beach area.											








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Fort Wadsworth Beach	579	Restore beach and dune habitat; remove fill and large, habitat suppressing debris.											
Great Kills, Gateway NRA	580												
Sea View Avenue Wetlands	582												
Sandy Hook (Sand By-Pass System)	583	Install a sand by-pass system to pump sand from the accreting beaches on the northern end down to the eroding oceanfront on the southern end. This would provide additional habitat for nesting birds (including piping plovers) and other beach/dune dependent species.											
Sandy Hook Beaches	586												
PSE&G Gasification Plant	590												
Shrewsbury/Navesink Rivers	591	Restore salt marshes, regrade, eelgrass transplant.											
Sandy Hook (Shellfish Restoration)	593	Use clean sand to replenish formerly productive clam beds which have been lost to erosion.											
Raritan Bay (Oyster Bed Restoration)	594	Re-establishment of historic oyster beds.											











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Raritan Bay (Submerged Rock Berm)	595	Intertidal/subtidal habitat creation/enhancement for fish and shellfish: construct an offshore submerged berm from rock or concrete rubble.											
Crookes Point	596	Uplands/dune restoration.											
Verrazano-Narrows	597	Construct artificial reef (e.g. rock or rubble mound) to increase availability of structural refuge habitat for juvenile and adult finfish and crustaceans. Potential to create seal haul-out area.											
Hoffman-Swinburne Islands	598	Regrading and beach creation; planting of native trees and shrubs; creation of an underwater/intertidal rock berm.											
Gravesend Bay	599	Place low-relief (e.g. 2-3 ft.) submerged hard structures at various locations within the bay for fish and invertebrate habitat enhancement.											
Hook Creek	601	Salt marsh restoration, excavation of <i>Phragmites</i> stands, regrading and restoration of tidal hydrodynamics, fill removal. Removal of debris would complement other work and allow impacted areas to revegetate on their own.											
Doxey Creek	602	Removal of fish impediments at the Branch Blvd. Bridge to allow migratory fish to return to historic spawning areas in the upper reaches of Doxey Creek.											









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Plumb Beach	603	Restoration of coastal fringe/dune habitat, bathymetric recontouring. Removal of excess sand, which may be impacting adjacent wetlands, from formerly nourished areas. Sand to be used for dune creation.											
Sheepshead Bay	604	Recontour by and entrance to channel to improve hydrodynamics, shoreline softening.											
Floyd Bennett Field	607	Debris removal and installation of offshore breakwaters. Soften/stabilize eroding shoreline through bioengineering. Cover abandoned concrete runways with clean sand and/or silty dredged material and create mixed upland meadows											
Canarsie Pol	608	Salt marsh restoration; dunes/uplands restoration. Remove <i>Phragmites</i> and restore tidal hydrology to former salt marsh areas. Remove large, habitat suppressing debris from intertidal and upland habitats.											
Pennsylvania Avenue Landfill	609	Salt marsh creation around perimeter of landfill to act as a buffer between the landfill and sub-tidal habitats in the bay.											
West Pond	611	Fill removal, shoreline stabilization, restore salt marsh.											











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Big Egg Marsh	614	Raise marsh elevation using high pressure spray of dredged material followed by planting of <i>Spartina alterniflora</i> . Demonstration restoration project completed by NPS in 2003.											
Black Wall Marsh	615	Complete wetland trend analysis and determine areas of significant loss. Conduct research to determine the causes of these losses.											
Goose Pond Marsh	616												
Yellow Bar Marsh	617												
Duck Point Marsh	624	Complete wetland trend analysis and determine areas of significant loss. Conduct research to determine the causes of these losses.											
Elders Point Marsh	625	Complete wetland trend analysis and determine areas of significant loss. Conduct research to determine the causes of these losses.											
Pumpkin Patch Marsh	626												
Stony Creek Marsh	627												









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Rockaway Peninsula	628	Construct underground culverts through narrow section of the peninsula, promoting exchange of water between Jamaica Bay and the Atlantic Ocean.											
Frank Charles Park	631	Salt marsh restoration; fill removal; remove large, habitat suppressing debris, recontour parts of Hawtree Creek.											
Grassy Bay	632	Fill with sand and/or other appropriate dredged material. This would isolate the sediment sink from the rest of Jamaica Bay and help to increase baywide flushing rates if combined with the dredging and culverting of hydrologic impediments, potentially increasing water quality for the entire system.											
Thurston Basin	634	The upper reach of the basin could be filled with dredged material, regraded to intertidal elevation, and planted with <i>Spartina</i> spp. The shoreline in much of the remainder of the basin could be softened/graded and planted with <i>Spartina</i> spp. or other desirable vegetation. Re-establishment of tidal hydrodynamics by connecting Thurston Basin and Brookville Creek could be accomplished via underground culverts.											
Silver Hole Marsh	638												









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Binnenwater	646												
Rockaway Reef	647	Fisheries Enhancement/Wave Dissipation											
Ferry Point Park	648	Shoreline softening and salt marsh fringe creation. Creation of upland vegetation buffer. Create grasslands on extensive degraded filled uplands.											
Hart Island	650	Salt marsh, dune, beach restoration; enhance shorebird nesting habitat; shoreline softening/stabilization; upland meadow restoration.											
Rice Stadium Wetlands	652	Excavate <i>Phragmites</i> , regrade to appropriate intertidal elevation, plant <i>Spartina spp.</i>											
Hutchinson River	661	Stream and riparian zone restoration, hydraulic reconnection and restoration of freshwater wetlands, tidal wetlands, and riparian forest. Restoration of anadromous fish passage.											
Pelham Bay Landfill	662												

















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Sherman Creek	663	Shoreline softening and regrading, with <i>Spartina</i> spp. Plantings in intertidal areas. Recontouring to create high/low marsh. Possible extension of CSO outlet. Construction of a berm of the riverside to minimize wave impacts. Installation of interpretive trails.											
Oak Point Rail Yard	666	Restoration of wetlands.											
Hempstead Harbor	669	Salt marsh restoration, excavation of <i>Phragmites</i> , regrade to proper intertidal elevation, plant <i>Spartina</i> spp., improve tidal hydrodynamics.											
Anable Cove	672	Proposed construction of a greenway along the edge of Anable Basin to connect with public space proposed at Anable Cove to Queens West. Restoration of the natural landscape and marsh plants of Anable Cove; creation of a wildlife viewing walkway.											
Stuyvesant Cove	673	Reclaim the waterfront for a park and environmental learning center.											
Hallets Cove	674												









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Newtown Creek	675	Restoration opportunities in Newtown Creek include sediment removal to improve dissolved oxygen levels, enhance benthic habitat, and reduce odors; wetland restoration; shoreline softening; and rounding of sharp angles to increase circulation and reduce sedimentation											
Bushwick Inlet	676	Regrading of basins and shoreline, salt marsh creation in newly developed intertidal areas.											
Cove Between The Bridges (Part Of Brooklyn Bridge)	677												
Hutchinson River (Fish Impediment Removal)	678	Install fish ladder to allow upstream movement of anadromous fish (e.g. river herring), remove large habitat suppressing debris from river channel.											
Hutchinson River (Marsh Restoration)	679	Shoreline stabilization and salt marsh fringe restoration. Creation of upland vegetation buffer.											
Tibbetts Brook	680	Shoreline softening/stabilization. Create/restore freshwater wetlands and ponds in floodplain of brook from Tibbetts Brook Park to Van Cortlandt Park.											
Rahway Riverfront Park	694	Tidal wetland enhancement.											













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Rahway River	695	Restore tidal and freshwater wetlands and shoreline stabilization. Fill Removal. Restore and regrade intertidal salt marsh to eliminate <i>Phragmites</i> and reestablish native salt marsh vegetation.											
Fresh Kills Landfill	704	Upon closure and placement of final cover in remaining active sections, upland pine forest, meadow and coastal dune habitat could be created in addition to the 3.5 acres already restored.											
Arthur Kill/Multiple Sites	706	Salt marsh restoration.											
Bridge Creek Stream Corridor Through Howland Hook Container Port	707												
Kill Van Kull/Kill Van Kull A&B	710												
Shooters Island	712	Create salt marsh, create/enhance beach and upland forest habitat. Enhance waterfowl and wading bird habitats.											













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Anderson Creek Marsh	715	Create meandering creeks, lower site elevations to allow for twice-daily tidal inundation, and excavate shallow pools to provide open water habitats. Upland waterfowl habitat nesting islands are also planned with access to open water areas.											
Lyndhurst Riverside Marsh	718	Grade marsh surface, create tidal channels, and reestablish high saltmarsh.											
Meadowlark Marsh	719												
Mehrhof Pond	720												
Metro Media Tract	721	Restore tidal hydrology and high and low saltmarsh habitat. Create tidal channel network and upland buffer zone.											
Mori Tract	722	Increase tidal flow and exchange, restore intertidal wetlands, and reintroduce native wetland species.											
Oritani Marsh	723												
Petrillo Tract	724	Increase tidal flow and exchange, restore intertidal wetlands, reintroduce native wetland species, and restore upland grassland habitat.											
Riverbend Wetlands Preserve	725												








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Secaucus High School	726	Use of site as an emergency flood control detentional basin.											
Secaucus Tract	727	Restoration would provide connectivity between Mill Creek Marsh and Secaucus High School sites to form a large, expanse of contiguous habitat.											
Steiners Marsh	728												
Teterboro Woods	729	Site is slated for preservation.											
	730												
Paerdegat Basin	731												
	732												
Mt. Loretto	800	Improve tidal connection, remove <i>Phragmites</i> , regrade/replant salt marsh margins. Remove debris from shoreline.											
Great Kills Park	801												
Berrys Creek	803												
Moonachie Creek	804	Wetland Acquisition; Northern Harrier & Yellow Crowned Night Heron Foraging Area											
Bronx River	806												
Cheesequake State Park	807												






















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Woodbridge River	808	The reconnection to the larger estuary, re-establishing daily tidal flushing, stream corridor and water quality improvements, restoration of riparian wetlands, culvert placement and/or modification, stabilization.											
Coney Island Creek	809												
Shellbank Basin	810												
Somerville Basin	811												
Bayard Buffer Ecopier		Part of Hudson River Park Estuarine Sanctuary. Isolated “island environment” with bird habitat, haul-outs, perched wetlands, fish shelves, light openings, and shellfish habitat.											
Northern River Oyster Pilot		Continuation of and in furtherance of the Hudson Baykeeper’s Oyster Habitat Restoration Project. Entails placing oysters into oyster cages at two sites within Hudson River Park: (1) pilings in the footprint of Pier 42, and (2) in shallows just west of the historic bulkhead west of the foot of Vestry St.											
Noortwyck Bluff Ecopier		Similar to Bayard Ecopier. Part of Hudson River Park Estuarine Sanctuary. Isolated “island environment” with bird habitat, haul-outs, perched wetlands, fish shelves, light openings, and shellfish habitat.											

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Greenwich Bay Marsh and Beach		Rip-rap at this section of Hudson River Park site allows the development of oyster reefs, submerged aquatic vegetation, eelgrass, marsh, beach, coastal strand and coastal riparian forest restoration, benthic sediment and water quality improvements.											
McClellan Bulkhead Softedge Projects		The Hudson River Bulkhead is a historic resource eligible for state listing. Can soften the bulkhead by adding enhancement features to encourage oyster reefs, submerged aquatic vegetation, eelgrass, marsh, and fish habitat.											
Bloemendael Marsh and Beach		The collapsed bulkhead will allow development of oyster reefs, submerged aquatic vegetation, eelgrass, marsh, beach, coastal strand and coastal riparian forest restoration, benthic sediment and water quality improvements.											
Lispenard Meadow Habitat Area		Create public access in region bordering the Hudson River Park.											
Chelsea Meadow Habitat Area		Bordering the Hudson River Park. Will make three acres of upland habitat area open to the general public.											

Symbol indicates that TEC goal is achieved by project

Blank in column indicates that TEC is not associated with project